



Atty. Dkt. No. 054707-1231

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Gregory S. HAMILTON et al.  
Title: HETEROCYCLIC KETONE AND  
THIOESTER COMPOUNDS AND  
USES  
Appl. No.: 10/615,803  
Filing Date: 07/10/2003  
Examiner: Unassigned  
Art Unit: 1625

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/104,242, filed 03/25/2002. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date 10/31/03

By S M Chong

FOLEY & LARDNER

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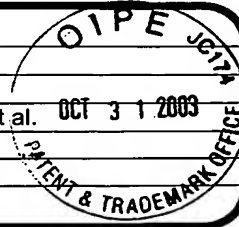
Telephone: (202) 295-4163

Facsimile: (202) 672-5399

Suet M. Chong  
Attorney for Applicant  
Registration No. 38,104

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b> Application Number: 10/615,803 Filing Date: 07/10/2003 First Named Inventor: Gregory S. Hamilton et al. Group Art Unit: 1625 Examiner Name: Unassigned Attorney Docket Number: 054707-1231	
Sheet	1	of	12		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	3,203,961		WU	08/31/1965	
	A2	3,458,515		ARCHIBALD	07/29/1969	
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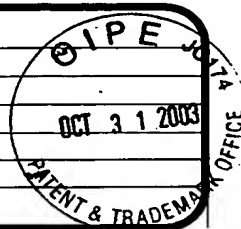
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	A43	DE	3508251			09/11/1986		
	A44	DE	3931051			03/29/1990		
	A45	DE	4015255			11/14/1991		
	A46	EP	12401			06/25/1980		
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	A56	EP	405994			01/02/1991		
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	A81	WO	95/12572			05/11/1995		
	A82	WO	94/07858			04/14/1994		
	A83	WO	93/07269			04/15/1993		
	A84	WO	96/06097			02/29/1996		
	A85	WO	94/05639			03/17/1994		

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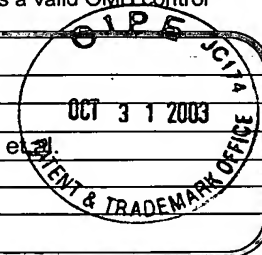
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	A86	WO	91/04985			04/18/1991		
	A87	WO	92/04370			03/19/1992		
	A88	WO	92/00278			01/09/1992		
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	A90	WO	90/12805			11/01/1990		
	A91	WO	91/13088			09/05/1991		
	A92	WO	92/03472			03/05/1992		
	A93	WO	96/17816			06/13/1996		
	A94	ZA	9207782			04/28/1993		

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	A95	ASKIN, et al., "Efficient Degradation of FK-506 to a versatile synthetic intermediate," <u>J. Org. Chem.</u> , 1990, Vol. 55(20), pgs. 55451-4.		
	A96	GOULET, et al., "Degradative studies on the tricarbonyl containing macrolide rapamycin," <u>Tetrahedron Lett.</u> , 1990, Vol. 31(34), pgs. 4845-8.		
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	A102	GOODFELLOW, et al., "p-Nitrophenyl 3-diazopyruvate and diazopyruvamide, a New Family of Photoactivatable Cross-Linking Bioprobes," <u>Biochemistry</u> , Vol. 28(15), pgs. 6346-60.		
	A103	WASSERMAN, et al., "Synthesis of the tricarbonyl region of FK-506 through an amidophosphorane [Erratum to document cited in CA111(7):57366p]," <u>J. Org. Chem.</u> , 1989, Vol. 54(22), pg. 5406.		

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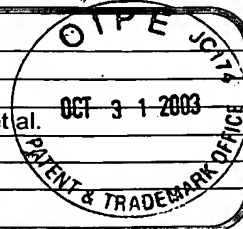
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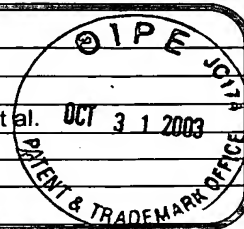
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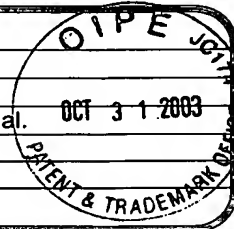
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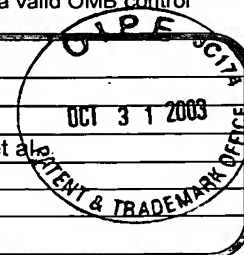
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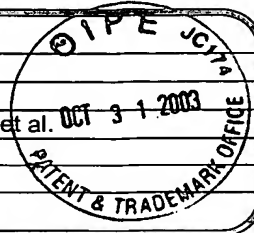
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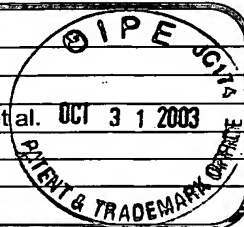
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted:  (use as many sheets as necessary)		Application Number	10/615,803
		Filing Date	07/10/2003
		First Named Inventor	Gregory S. Hamilton et al.
		Group Art Unit	1625
		Examiner Name	Unassigned
Sheet	11	of	12
		Attorney Docket Number	054707-1231



## NON PATENT LITERATURE DOCUMENTS

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	A207	Holt, Dennis A. et al. "Design, Synthesis, and Kinetic Evaluation of High-Affinity FKBP Ligands and the X-ray Crystal Structures of their Complexes with FKBP12", J. Am. Chem. Soc., 1993, Vol. 115, pgs. 9925-39.	
	A208	Wang, Gary T. et al. "Synthesis and FKBP Binding of Small Molecule Mimics of the Tricarbonyl Region of FK506," Bioorganic & Medicinal Chemistry Letters, 1994, Vol. 4, No. 9, pgs. 1161-1166.	
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	A210	Egbertson, M., and Ddanishefsky, S., "A synthetic route to the tricarbonyl region of FK-506," J. Org. Chem., 1989, Vol. 54(1), pgs. 11-12.	
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	A219	Pesson, Marcel et al., "Chemistry and Pharmacology of Derivatives of Pyrrole. I. 2-pyrrolyl Ketones. Preparation and Pharmacology," <u>Chim. Ther.</u> , (1966) Vol. 3, pgs. 127-36.	
	A220	Archibald, John L. et al., "Reactions of Pyrroles. II. Preparation and Reactions of Pyrroleglyoxyloyl Derivatives", <u>J. Heterocycle Chem.</u>	
	A221	Zellner, Hugo et al. "Reaction of Pyruvic Acid with O-diamine. III. Synthesis of 2-(A-oxoalkyl) benzimidazoles", <u>Monatsh. Chem.</u> , (1967) Vol. 98(3): pgs. 643-65.	

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Sheet 12 of 12	Attorney Docket Number	054707-1231	

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	A222	Kost, A.N. et al. "Indole Chemistry, XXVII. 2-(Haloacetyl) indoles", <u>Khim Geterotsikl, Soedin.</u> , (1971) Vol. 7(11), pgs. 1522-26.	
	A223	Kotani, E. et al. "New Synthesis of the Alkaloid (+-) -cryptoplleurine by Anodic Oxidation", <u>Tetrahedron</u> , (1974), Vol. 30(17), pgs. 3027-30.	
	A224	Barrett, Anthony, "A New Arrangement Reaction of Penicillin G Sulfoxide", <u>J. Chem. Soc., Perkin Trans.</u> , (1979), Vol. 1(1), pgs 170-75.	
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	A226	Demirayak, Seref et al., "Synthesis of Some 1-(2-arylvinyl)-3-arylpyrazino (1,2-a) benzimidazole Derivatives and their Antimicrobial Activities", <u>Farmaco</u> , (1996), Vol. 51(12) pgs. 825-27.	
	A227	SHARKEY, John et al., "Immunophilins mediate the neuroprotective effects of FK506 in focal cerebral ischemia," Chemical Abstract, 121:221398 (XP002212406)	

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